

IN THE CLAIMS

1. (Original) A joint construction of cobalt-based alloy in which a cobalt-based alloy material portion is diffusion bonded to a base metal portion by interposing an insert metal between said cobalt-based alloy portion, in which granular or massive eutectic carbide disperses in a matrix of metal microstructure, and said base metal portion, wherein a layer of said insert metal is formed over said base metal portion, and said cobalt-based alloy portion is located over said insert metal layer.

2. (Original) The joint construction of cobalt-based alloy according to claim 1, wherein said base metal portion and said cobalt-based alloy portion contain an element diffused from said insert metal.

3. (Previously Amended) The joint construction of cobalt-based alloy according to claim 1, wherein said insert metal layer contains an element diffused from said base metal portion and cobalt diffused from said cobalt-based alloy portion.

4. (Previously Amended) The joint construction of cobalt-based alloy material according to claim 1, wherein the grain size of said eutectic carbide is not larger than 30 μm .

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5. (Previously Amended) The joint construction of cobalt-based alloy material according to claim 1, wherein said base metal portion is formed of any of carbon steel, low alloy steel, and stainless steel.

6. (Previously Amended) The joint construction of cobalt-based alloy material according to claim 1, wherein said cobalt-based alloy portion contains 0.6 to 3% C, 2% or less Si, 25 to 32% Cr, 15% or less W, 0 to 3% Fe, 0 to 3% Ni, and 0 to 6% Mo by weight, the balance being Co and unavoidable impurities.

Claims 7-15 (Canceled)

16. (Previously Added) The joint construction of cobalt-based alloy material according to claim 3, wherein the grain size of said eutectic carbide is not larger than 30 μm .

17. (Previously Added) The joint construction of cobalt-based alloy material according to claim 3, wherein said base metal portion is formed of any of carbon steel, low alloy steel, and stainless steel.

18. (Previously Added) The joint construction of cobalt-based alloy material according to claim 17, wherein said cobalt-based alloy portion contains 0.6 to 3% C, 2% or less Si, 25 to 32% Cr, 15% or less W, 0 to 3% Fe, 0 to 3% Ni, and 0 to 6% Mo by weight, the balance being Co and unavoidable impurities.

19. (Previously Added) The joint construction of cobalt-based alloy material according to claim 17, wherein said cobalt-based alloy portion contains 0.6 to 3% C, 2% or less Si, 25 to 32% Cr, 15% or less W, 0 to 3% Fe, 0 to 3% Ni, and 0 to 6% Mo by weight, the balance being Co and unavoidable impurities.

20. (Previously Added) The joint construction of cobalt-based alloy material according to claim 4, wherein said base metal portion is formed of any of carbon steel, low alloy steel, and stainless steel.

21. (Previously Added) The joint construction of cobalt-based alloy material according to claim 4, wherein said cobalt-based alloy portion contains 0.6 to 3% C, 2% or less Si, 25 to 32% Cr, 15% or less W, 0 to 3% Ni, and 0 to 6% Mo by weight, the balance being Co and unavoidable impurities.

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22. (Previously Added) The joint construction of cobalt-based alloy according to claim 2, wherein said insert metal layer contains an element diffused from said base metal portion and cobalt diffused from said cobalt-based alloy portion.

23. (Previously Added) The joint construction of cobalt-based alloy material according to claim 2, wherein the grain size of said eutectic carbide is not larger than 30 μm .

24. (Previously Added) The joint construction of cobalt-based alloy material according to claim 2, wherein said base metal portion is formed of any of carbon steel, low alloy steel, and stainless steel.

25. (Previously Added) The joint construction of cobalt-based alloy material according to claim 2, wherein said cobalt-based alloy portion contains 0.6 to 3% C, 2% or less Si, 25 to 32% Cr, 15% or less W, 0 to 3% Fe, 0 to 3% Ni, and 0 to 6% Mo by weight, the balance being Co and unavoidable impurities.

26. (Previously Added) The joint construction of cobalt-based alloy material according to claim 22, wherein the grain size of said eutectic carbide is not larger than 30 μm .

27. (Previously Added) The joint construction of cobalt-based alloy material according to claim 22, wherein said base metal portion is formed of any of carbon steel, low alloy steel, and stainless steel.

28. (Previously Added) The joint construction of cobalt-based alloy material according to claim 22, wherein said cobalt-based alloy portion contains 0.6 to 3% C, 2% or less Si, 25 to 32% Cr, 15% or less W, 0 to 3% Fe, 0 to 3% Ni, and 0 to 6% Mo by weight, the balance being Co and unavoidable impurities.

29. (Previously Added) The joint construction of
C cobalt-based alloy material according to claim 27, wherein
B | said cobalt-based alloy portion contains 0.6 to 3% C, 2% or
less Si, 25 to 32% Cr, 15% or less W, 0 to 3% Fe, 0 to 3% Ni,
and 0 to 6% Mo by weight, the balance being Co and unavoidable
impurities.

Claims 30-40 (Canceled)
